

CLAIMS

1. A vehicle comprising:

a plurality of wheels for enabling said vehicle to roll when placed upon a surface,

a motor with power transmission means for turning at least one of said wheels for propelling said vehicle along said surface,

a rider support attached to said wheels and substantially covering lower components of said vehicle and having an upward facing surface whereupon a rider may stand, sit, or kneel,

said rider support having a steering control tilting means for enabling said rider support to tilt in a generally side-to-side direction and concomitantly steer said vehicle in response to the tilting of said rider support in a side-to-side direction when said vehicle rolls upon said surface,

said rider support also having speed control tilting means for enabling said rider support to tilt in a generally forward or backward direction and concomitantly control the speed of said vehicle in response to the tilting of said rider support in a forward or backward direction when said vehicle rolls upon said surface,

said speed control tilting means having a rolling direction reversing means enabling said motor to change the direction said vehicle rolls upon said surface, whereby said vehicle may be propelled in either a forward or reverse direction,

said upward facing surface being free of any upwardly extending supports or hand grips, whereby said steering control tilting means and said speed control

tilting means are entirely operable by said rider's feet when said rider is standing upon said rider support.

2. The vehicle of claim 1 wherein said speed control tilting means includes a throttle biasing means for urging said vehicle to cease rolling when said rider is not situated upon said rider support.

3. The vehicle of claim 2 wherein said throttle biasing means includes:

at least one spring member,

a means for causing said spring member to deform when rider support is tilted forward or backward, and

means whereby said spring member's resistance to deformation urges said rider support to return to a neutral throttle position whereat said vehicle is urged to cease rolling.

4. The vehicle of claim 3 wherein said speed control tilting means is comprised of at least one spring member,

said spring member having attachment means for connecting said rider support to said vehicle,

5. The vehicle of claim 1 wherein said speed control tilting means is comprised of a pivotable union for enabling pivoting to occur along a generally lateral axis.

6. The vehicle of claim 1 wherein:

said motor and at least one of said wheels which is turned by said power transmission means are fixedly mounted on a steerable truck,

said steerable truck is mounted to said vehicle by a steering union for enabling said steerable truck to change its angular disposition to said vehicle along a generally vertical axis,

said steering control tilting means has means for controlling said angular disposition of said steerable truck,

said angular disposition of said steerable truck steers said vehicle by altering the rolling direction of said drive wheel.

7. The vehicle of claim 6 wherein said steering union comprises a rotational bearing set.

8. The vehicle of claim 6 wherein:

said steering union comprises a springy flexural material with a fastening means,

said fastening means having means for connecting said steerable truck to said vehicle such that said flexural material is caused to deform when said angular disposition of said steerable truck changes,

means for causing said flexural material's resistance to deformation to urge said steerable truck to cause said vehicle to roll upon said surface in a generally straight line.